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F1

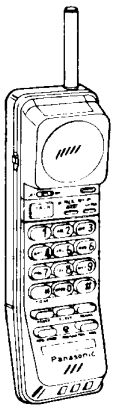
Service Manual

and Technical Guide

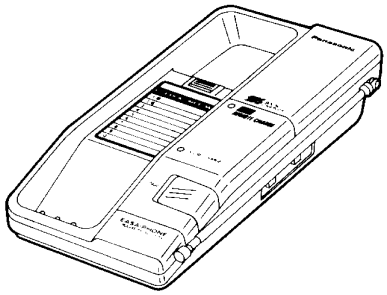
EASA-PHONE®
CORDLESSPHONE

Telephone Equipment

KX-T3710



(Model KX-T3710R)



(Model KX-T3710H)

SPECIFICATIONS/ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
DISASSEMBLY INSTRUCTIONS/ПОРЯДОК РАЗБОРКИ
CPU DATA (KX-T3710H) (BASE UNIT)/ИНФОРМАЦИЯ О ПРОЦЕССОРЕ (KX-T3710H) (БАЗОВЫЙ БЛОК)
CPU DATA (KX-T3710R) (PORTABLE UNIT)/ИНФОРМАЦИЯ О ПРОЦЕССОРЕ (KX-T3710R) (ТРУБКА)
ADJUSTMENTS (KX-T3710H)/РЕГУЛИРОВКИ (KX-T3710H)
SCHEMATIC DIAGRAM (KX-T3710H)/ПРИНЦИПИАЛЬНАЯ СХЕМА (KX-T3710H)
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM (KX-T3710H)/ПЕЧАТНАЯ ПЛАТА И СХЕМА СОЕДИНЕНИЯ УЗЛОВ(KX-T3710H)
SCHEMATIC DIAGRAM (KX-T3710R)/ПРИНЦИПИАЛЬНАЯ СХЕМА (KX-T3710R)
ADJUSTMENTS (KX-T3710R)/РЕГУЛИРОВКИ (KX-T3710R)
FREQUENCY TABLE/ТАБЛИЦА РАБОЧИХ ЧАСТОТ
ACCESSORIES AND PACKING MATERIALS/ПРИНАДЛЕЖНОСТИ И УПАКОВОЧНЫЕ МАТЕРИАЛЫ
BLOCK DIAGRAM (KX-T3710H)/БЛОК-СХЕМА (KX-T3710H)
BLOCK DIAGRAM (KX-T3710R)/БЛОК-СХЕМА (KX-T3710R)
CABINET AND ELECTRICAL PARTS LOCATION (KX-T3710H)/РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ (KX-T3710H)
CABINET AND ELECTRICAL PARTS LOCATION (KX-T3710R)/РАСПОЛОЖЕНИЕ ЧАСТЕЙ КОРПУСА И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ (KX-T3710R)
REPLACEMENT PARTS LIST (KX-T3710H)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (KX-T3710H)
REPLACEMENT PARTS LIST (KX-T3710R)/СПИСОК ЗАПАСНЫХ ЧАСТЕЙ (KX-T3710R)

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■ SPECIFICATIONS

General

Modulation:	FM, 5 kHz Deviation
Frequency Stability:	±2.5 kHz
Dial Type:	Tone (DTMF)/Pulse
Redial:	Last dialed number each time the Redial button is pressed
Pause:	3.5 seconds per pause

	Base unit (KX-T3710H)	Portable unit (KX-T3710R)
Power Source:	AC adaptor KX-A10 (DC 12 V)	Built-in rechargeable Ni-Cd battery (KX-A36A)
(Receiver Section)		
Receiving frequency:	10 channel within 49.6 to 49.9 MHz	10 channel within 46.6 to 46.9 MHz
Adjacent Channel Rejection:	40 dB	40 dB
Sensitivity:	1 μV for 20 dB S/N	2 μV for 20 dB S/N
(Transmitter Section)		
Transmitting Frequency:	10 channel within 46.6 to 46.9 MHz	10 channel within 49.6 to 49.9 MHz
Jacks:	DC IN, Telephone Line	
Antenna:	Telescopic	Retractable Rubber Flexible
Speaker:	2″ (5 cm) PM Dynamic	$1^{3}/_{16}$″ (3 cm) ceramic type
Microphone:	Condenser Microphone	Condenser Microphone
Dimensions (H×W×D):	2⅛″×4⁹/₁₆″×8¹¹/₁₆″ (54×116×221 mm)	$11^{13}/_{32}$″×$2^{13}/_{32}$″×$2^{5}/_{32}$″ (290×61×55 mm)
Weight:	0.69 lbs (315g)	0.52 lbs. (235 g) with battery

Design and specifications are subject to change without notice.

DISASSEMBLY INSTRUCTIONS

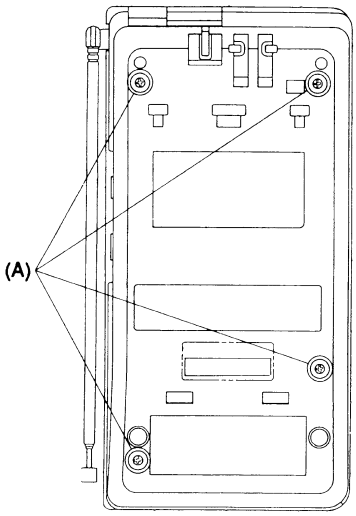


Fig. 3

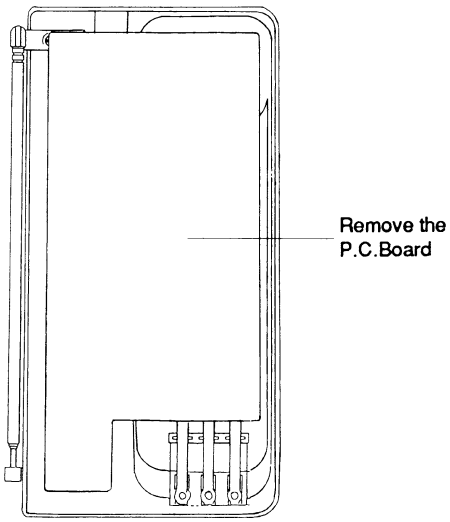


Fig. 4

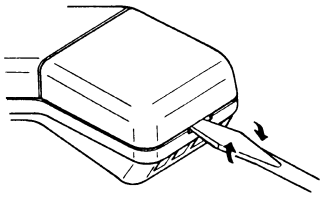


Fig. 5

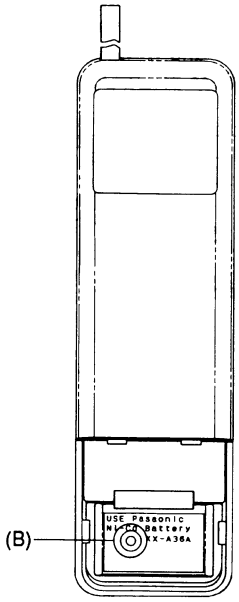


Fig. 6

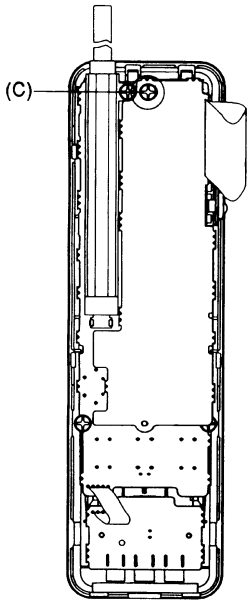


Fig. 7

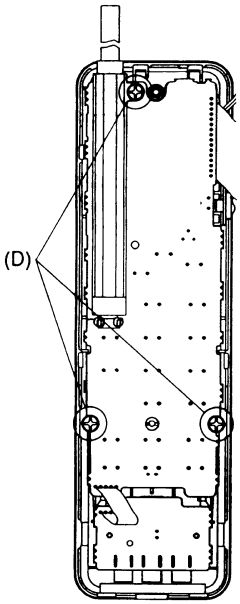


Fig. 8

Ref. No.	Procedure	Shown In Fig.—	To remove—.	Remove—.
1	1	3	Lower Cabinet	Screws (3×14) ..... (A)×4
2	1, 2	4	Printed Circuit Board	Remove the P.C. Board
3	3, 4	5	Rear Cabinet	*
4		6		Screw (2.6×10) ..... (B)×1
5	3~5	7	Printed Circuit Board	Screw (2.6×10) ..... (C)×1
6	3~6	8		Screws (2.6×10, 2.6×8) ..... (D)×3

*Open the cover by inserting a screwdriver in the slot and twist it to pry the battery cover off, see Fig. 5.

CPU DATA KX-T3710H (Base Unit)

IC4 MN158413KPJ1

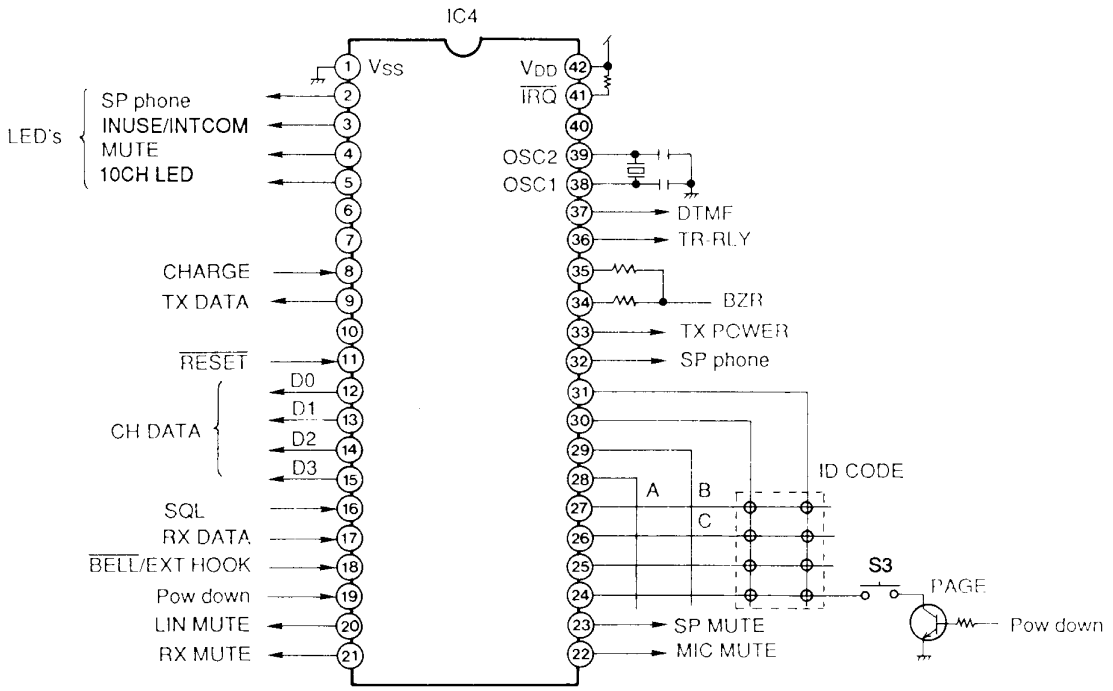


Fig. 9

Option:

		Diode Closed	Diode Open
A	% Break	67%	61%
B	Electric Field Detect	30 sec	60 sec
C	Tone/Pulse	Pulse	Tone

Pin No.	Mark	Description	Logical 'H'	Logical 'L'	Pin No.	Mark	Description	Logical 'H'	Logical 'L'
1	Vss	Vss=0 V		Normal	22	MIC MUTE	Microphone Mute	Mute	
2	SP PHONE	Speakerphone LED	Off	On	23		Speaker Mute	Mute	
3	IN USE	In Use/intercom LED	Off	On	24				Key In
4	MUTE	Mute LED	Off	On	25		Key Input		Key In
5	CH	Charge LED	Off	On	26				Key In
6		Not Used			27				Key In
7		Not Used			28			Normal	Strobe Out
8	Charge	Charge Detection	Charge	Non charge	29			Normal	Strobe Out
9	TX Data	TX Data	1	0	30		Strobe Output	Normal	Strobe Out
10	TONE	Not Used			31			Normal	Strobe Out
11	RESET	Reset		Reset	32	SP-PHONE	Speakerphone	Off	On
12	D0		1	0	33	TX POW	TX Power	On	Off
13	D1	PLL Channel Data	1	0	34		Buzzer Output	—	—
14	D2		1	0	35	BZR		—	—
15	D3		1	0	36	TR-RLY	Relay	Make	Break
16	SQL	Electric Field	High	Low	37	DTMF	DTMF Output	—	—
17	RX DATA	RX Data	1	0	38	OSC1			
18	BELL/HOOK	Bell at standby/Ext Hook at Hold	Bell off/ off Hook	Bell In/—	39	OSC2			
19	POW DOWN	Power Down	—	Power Down	40		Not Used		
20	LIN MUTE	Line Mute	Mute	—	41	IRQ	Not Used		
21	RX MUTE	RX Mute	Mute		42	VDD	VDD=4.5~5.5 V		

CPU DATA KX-T3710R (Portable Unit)

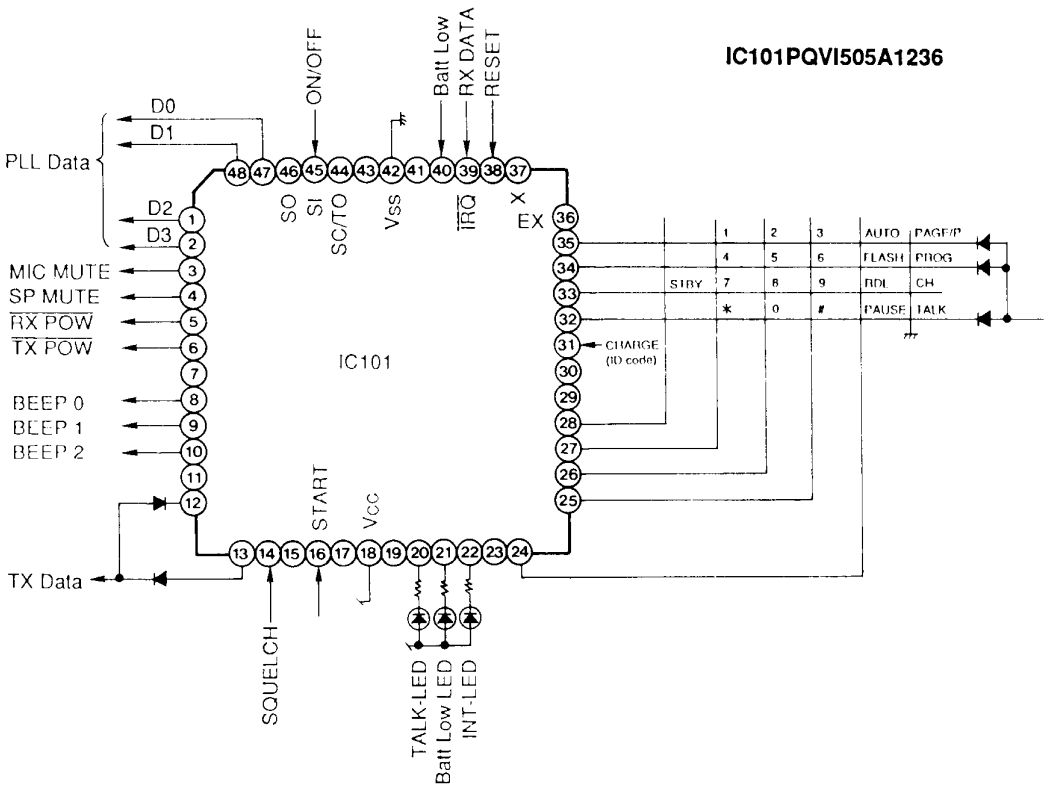


Fig. 10

Pin No.	Mark	Description	Logical 'H'	Logical 'L'	Pin No.	Mark	Description	Logical 'H'	Logical 'L'
1	D2	Channel Data	1	0	25		Strobe Out		Active
2	D3		1	0	26				Active
3	MIC MUTE	Microphone Mute	Mute	—	27				Active
4	SP MUTE	Speaker Mute	Mute	—	28				Active
5	$\overline{\text{RX POW}}$	RX Power	Off	On	29				
6	$\overline{\text{TX POW}}$	TX Power	Off	On	30		Not Used		
7		Not Used			31	CHARGE	Charge	Non charge	Charge
8	BEEP 0	Beep 0	Normal	Active	32		Key Input		Key In
9	BEEP 1	Beep 1	Normal	Active	33				Key In
10	BEEP 2	Beep 2	Normal	Active	34				Key In
11		Not Used			35				Key In
12	TX	TX Data	1	0 (Normal)	36	OSC	Clock In		
13	DATA	TX Data	1 (Normal)	0	37		Clock Out		
14	SQL	Electric Field	Low	High	38	RESET	Reset		Active
15					39	RX DATA	RX Data	1	0
16	START	Start	Activation		40	Batt Low	Battery Low	High	Low
17		Not Used			41		Not Used		
18	Vcc	Vcc			42	Vss	Vss=0 V		
19		Not Used			43		Not Used		
20	TALK	Talk LED	Off	On	44		Not Used		
21	Batt Low	Multi LED	Off	On	45	ON/OFF	Power On/Off	On	Off
22	INT	Intercom LED	Off	On	46		Not Used		
23					47		Channel Data	1	0
24		Strobe Out		Active	48			1	0

ADJUSTMENTS (KX-T3710H)

■ TRANSMITTER ADJUSTMENT

(A) Phase Detector Voltage Adjustment
(B) Frequency Adjustment
(C) Power Adjustment

Required Equipments
- Frequency Counter
- Digital voltmeter
- RF VTVM

Connection of Equipments
This diagram shows the connection of equipments required for (A) through (C).
Unnecessary equipment (s) can be eliminated if not required.

Flow Solder Side View

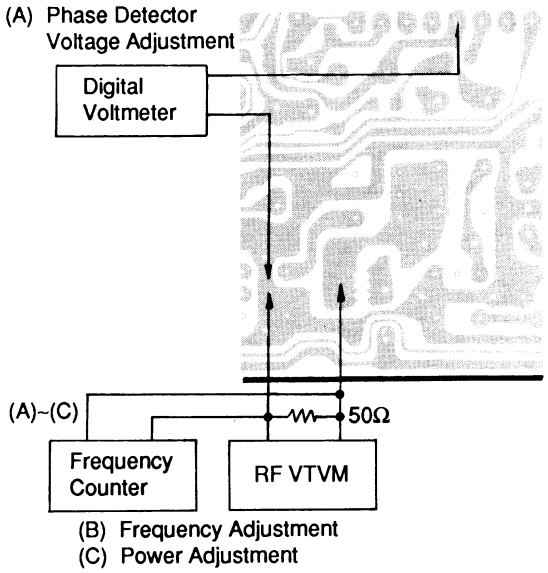


Fig. 11

	Required Equipment	Conditions	Procedure
(A)	Frequency Counter Digital Voltmeter	(1) Set the Code Selector to read "A". (2) Connect the AC Adaptor (KX-A10) plug into DC IN Jack and the other end into a power outlet (AC 120 V, 60 Hz). (3) Set the Power/Ringer Switch to "ON", and press Talk Button of the KX-T3710R. (4) Set the unit to CH10 frequency (Press the Channel Button of KX-T3710R so that the reading of the frequency counter is 46.970 MHz.	(1) Adjust L7 (clockwise) so that the reading of the Digital Voltmeter is 3.2 V±0.1 V.
(B)	Frequency Counter RF VTVM	Same as (A)	(1) Adjust T4 and L6 for maximum output on RF VTVM. (2) Adjust **VC1** so that the reading of the frequency counter is 46.970 MHz ±100 Hz (CH10).
(C)	Frequency Counter RF VTVM	Same as (A)	(1) Adjust T4 (clockwise) so that the both ends of resistor 50Ω is 85 mV±15 mV by RF VTVM.

■ RECEIVER ADJUSTMENT

(A) Phase Detector Voltage Adjustment
(B) RF Adjustment

Required Equipments
- ●Frequency Counter
- ●Digital Voltmeter
- ●S.S.G (Signal Generator)
- ●Loop Simulator
- ●AF VTVM

Connection of Equipments
This diagram shows the connection of equipments required for (A) and (B).
Unnecessary equipment (s) can be eliminated if not required.

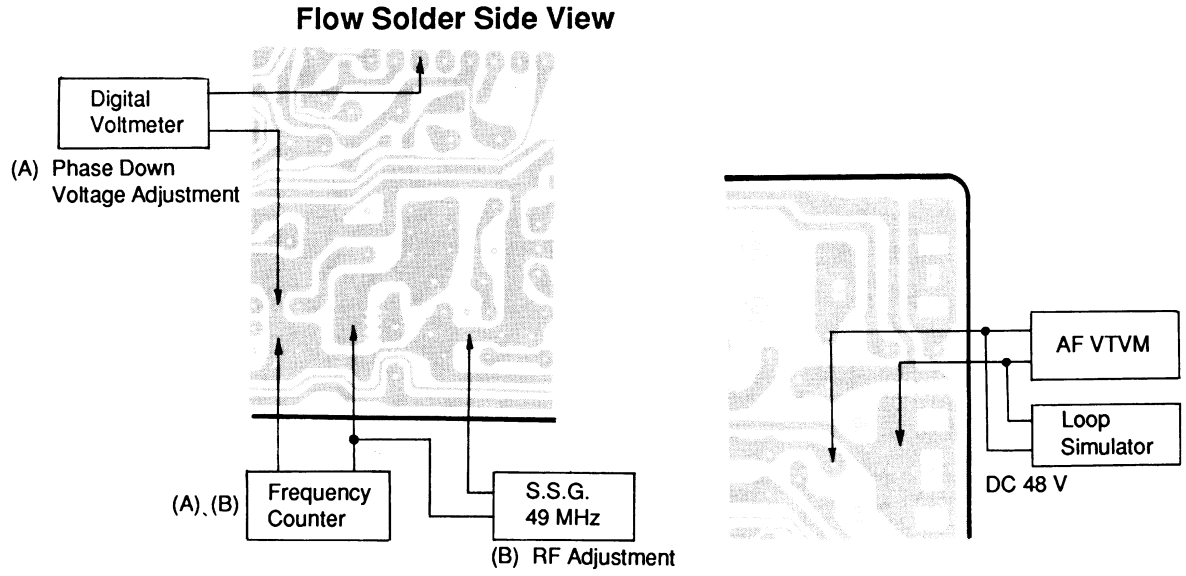
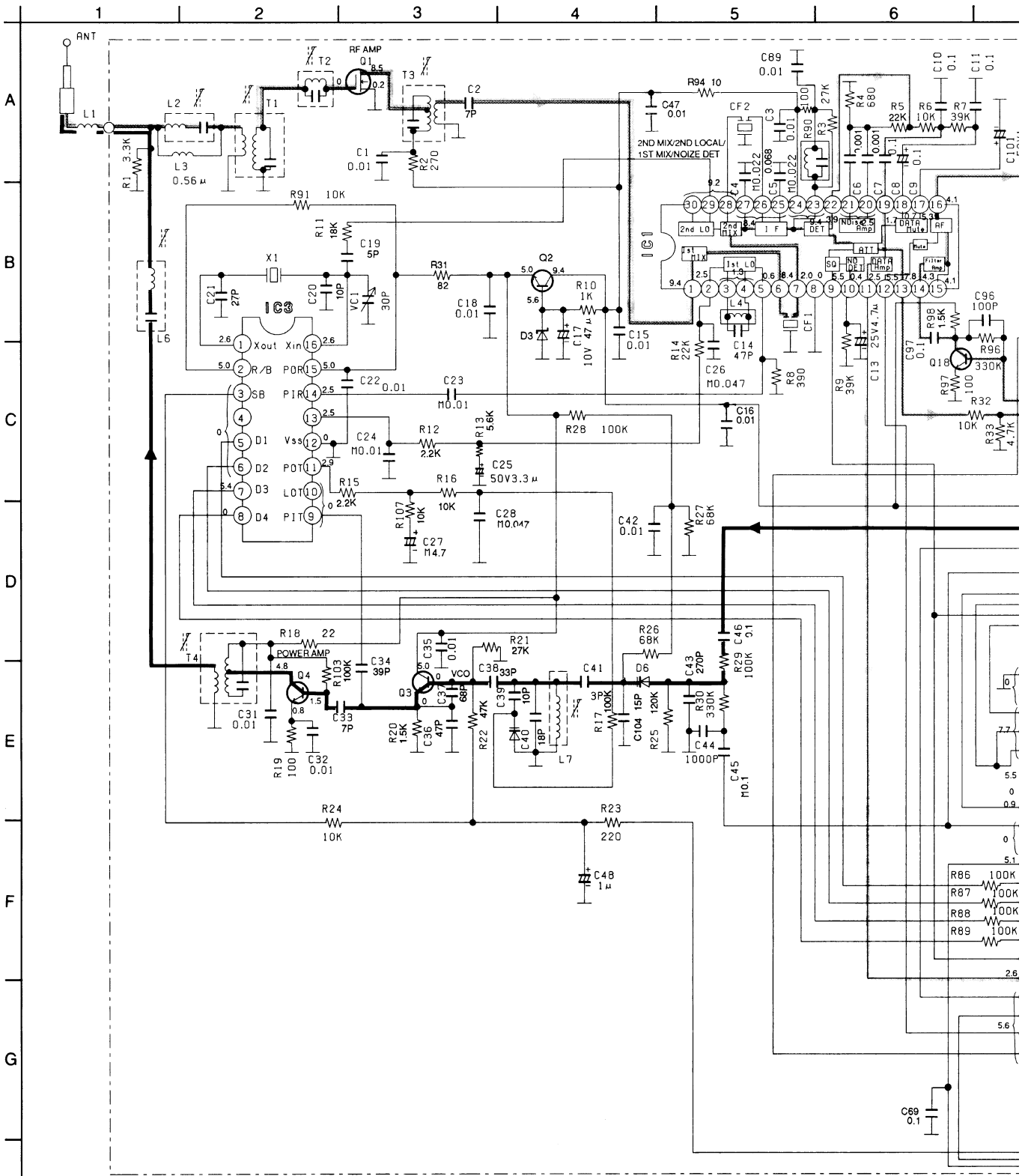


Fig. 12

	Required Equipment	Conditions	Procedure
(A)	Frequency Counter Digital Voltmeter	(1) Set the Code Selector to read "A". (2) Connect the AC Adaptor (KX-A10) plug into DC IN Jack and the other end into a power outlet (AC 120 V, 60 Hz). (3) Set the Power/Ringer Switch to "ON", and press Talk Button of the KX-T3710R. (4) Set the unit to CH10 frequency (Press the Channel Button of KX-T3710R so that the reading of the frequency counter is 49.970 MHz.	(1) Adjust L4 (clockwise) so that the reading of the Digital Voltmeter is 3.2 V±0.1 V.
(B)	Frequency Counter S.S.G. Loop Simulator AF VTVM	(1) Same as (A) (2) Apply a 130 dBμ output from S.S.G. (3) Set the Power/Ringer switch to "OFF" of the KX-T3710R.	(1) Apply a 60 dBμ output from S.S.G. (modulation frequency 1 kHz, dev. 3 kHz). (2) Apply a DC 48 V from Tel Jack (CN1) by Loop simulator. (3) Adjust **L5** for maximum output between T-R (by AF VTVM). (4) Apply a 30 dBμ output from S.S.G. (modulation frequency 1 kHz, dev, 3 kHz), and adjust **L2**, **T1**, **T2** and **T3** (in that order) for maximum output between T-R (by AF VTVM).

SCHEMATIC DIAGRAM



Notes:

1. S1: Code Selector switch in "A" position.
2. S2: Dialing mode selector in "TONE" position.
3. S3: Page switch in "OFF" position.
4. DC voltage measurements are taken with an electronic voltmeter from the negative voltage line.
   STANDBY position

Important Safety Notice

The shaded area on this schematic diagram in
porates special features important for protection f
fire and electrical shock hazards.
When servicing it is essential that only manufactu
specified parts be used for the critical component
the shaded areas of the schematic.

GRAM (KX-T3710H)

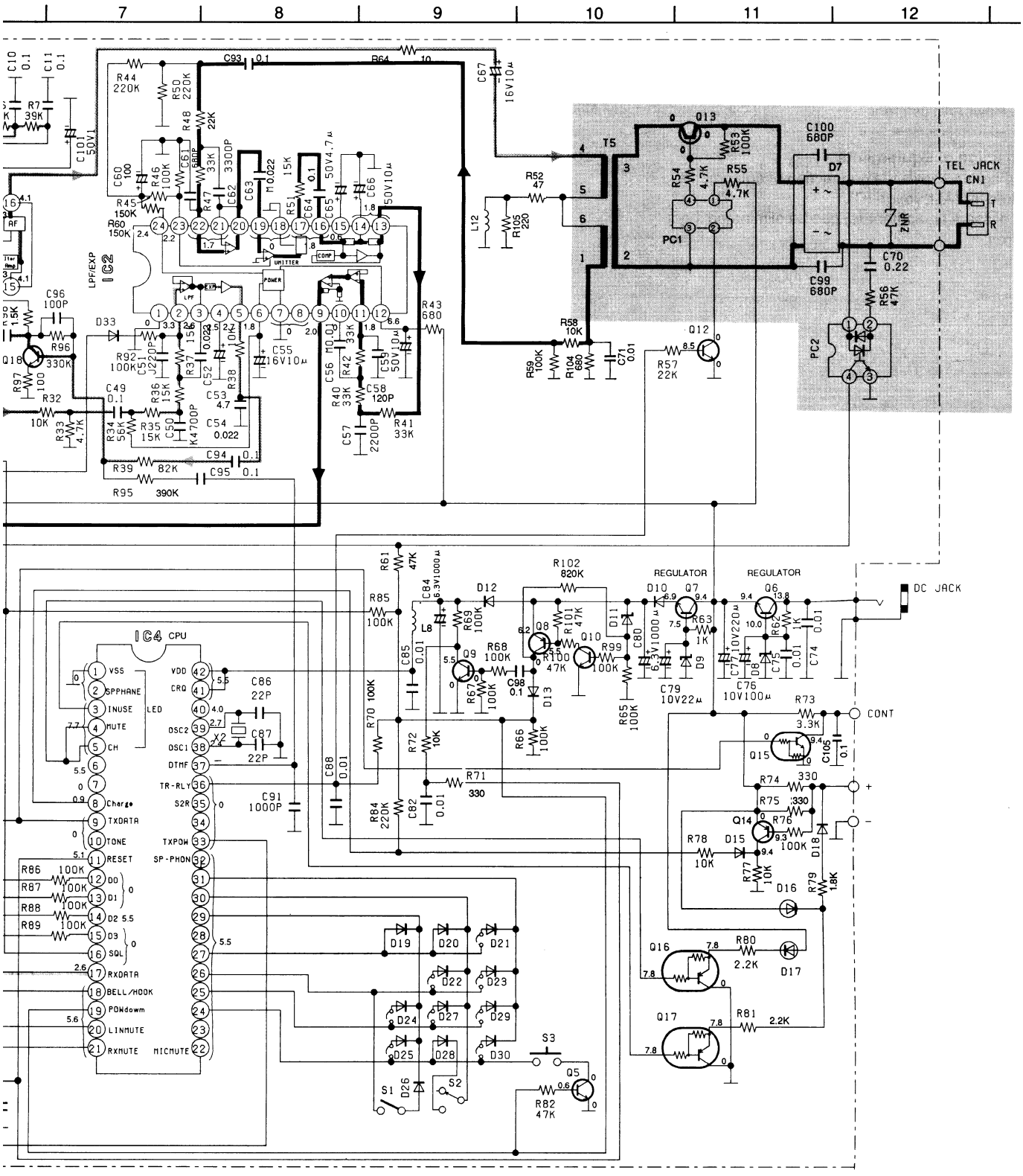


diagram incor-
protection from
manufacturer's
components in

This schematic diagram may be modified at any time with development of new technology.

TX Signal
RX Signal
Data Signal

CIRCUIT BOARD AND WIRING CO

To prevent the jamming

1. The model KX-T3710 has the 128 ID codes to prevent the jamming as shown right table.
2. If you want change the ID code, short or open diodes to D20-D23, D27 D29, D30
3. After changing the ID code of the KX-T3710H, place the KX-T3710R in the cradle of the KX-T3710H, then the KX-T3710R's ID code is transfered automatically.

O: Short the diodes
X: Open the diodes

Code	D20	D21	D22	D23	D27	D29	D30
1	×	×	×	×	×	×	×
2	×	×	×	×	×	×	O
3	×	×	×	×	×	O	×
4	×	×	×	×	O	×	×
5	×	×	×	O	×	×	×
6	×	×	O	×	×	×	×
7	×	O	×	×	×	×	×
8	O	×	×	×	×	×	×
9	×	×	×	×	×	O	O
10	×	×	×	×	O	×	O
11	×	×	×	O	×	×	O
12	×	×	O	×	×	×	O
13	×	O	×	×	×	×	O
14	O	×	×	×	×	×	O
15	×	×	×	×	O	O	×
16	×	×	×	O	×	O	×
17	×	×	O	×	×	O	×
18	×	O	×	×	×	O	×
19	O	×	×	×	×	O	×
20	×	×	×	O	O	×	×
21	×	×	O	×	O	×	×
22	×	O	×	×	O	×	×
23	O	×	×	×	O	×	×
24	×	×	O	O	×	×	×
25	×	O	×	O	×	×	×
26	O	×	×	O	×	×	×
27	×	O	O	×	×	×	×
28	O	×	O	×	×	×	×
29	O	O	×	×	×	×	×
30	×	×	×	×	O	O	O
31	×	×	×	O	×	O	O
32	×	×	O	×	×	O	O

Code	D20	D21	D22	D23	D27	D29	D30
33	×	O	×	×	×	O	O
34	O	×	×	×	×	O	O
35	×	×	×	O	O	×	O
36	×	×	O	×	O	×	O
37	×	O	×	×	O	×	O
38	O	×	×	×	O	×	O
39	×	×	O	O	×	×	O
40	×	O	×	O	×	×	O
41	O	×	×	O	×	×	O
42	×	O	O	×	×	×	O
43	O	×	O	×	×	×	O
44	O	O	×	×	×	×	O
45	×	×	×	O	O	O	×
46	×	×	O	×	O	O	×
47	×	O	×	×	O	O	×
48	O	×	×	×	O	O	×
49	×	×	O	×	×	O	×
50	×	O	×	O	×	O	×
51	O	×	×	O	×	O	×
52	×	O	O	×	×	O	×
53	O	×	O	×	×	O	×
54	O	O	×	×	×	O	×
55	×	×	O	O	O	×	×
56	×	O	×	O	O	×	×
57	O	×	×	O	O	×	×
58	×	O	O	×	O	×	×
59	O	×	O	×	O	×	×
60	O	O	×	×	O	×	×
61	×	O	O	O	×	×	×
62	O	×	O	O	×	×	×
63	O	O	O	×	×	×	×
64	×	×	O	O	O	O	×

Code	D20	D21	D22	D23	D27
65	×	×	×	O	O
66	×	×	O	×	O
67	×	O	×	×	O
68	O	×	×	×	O
69	×	×	O	O	×
70	×	O	×	O	×
71	O	×	×	O	×
72	×	O	O	×	×
73	O	×	O	×	×
74	O	O	×	×	×
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83	O	O	×	O	×
84	O	O	O	×	×
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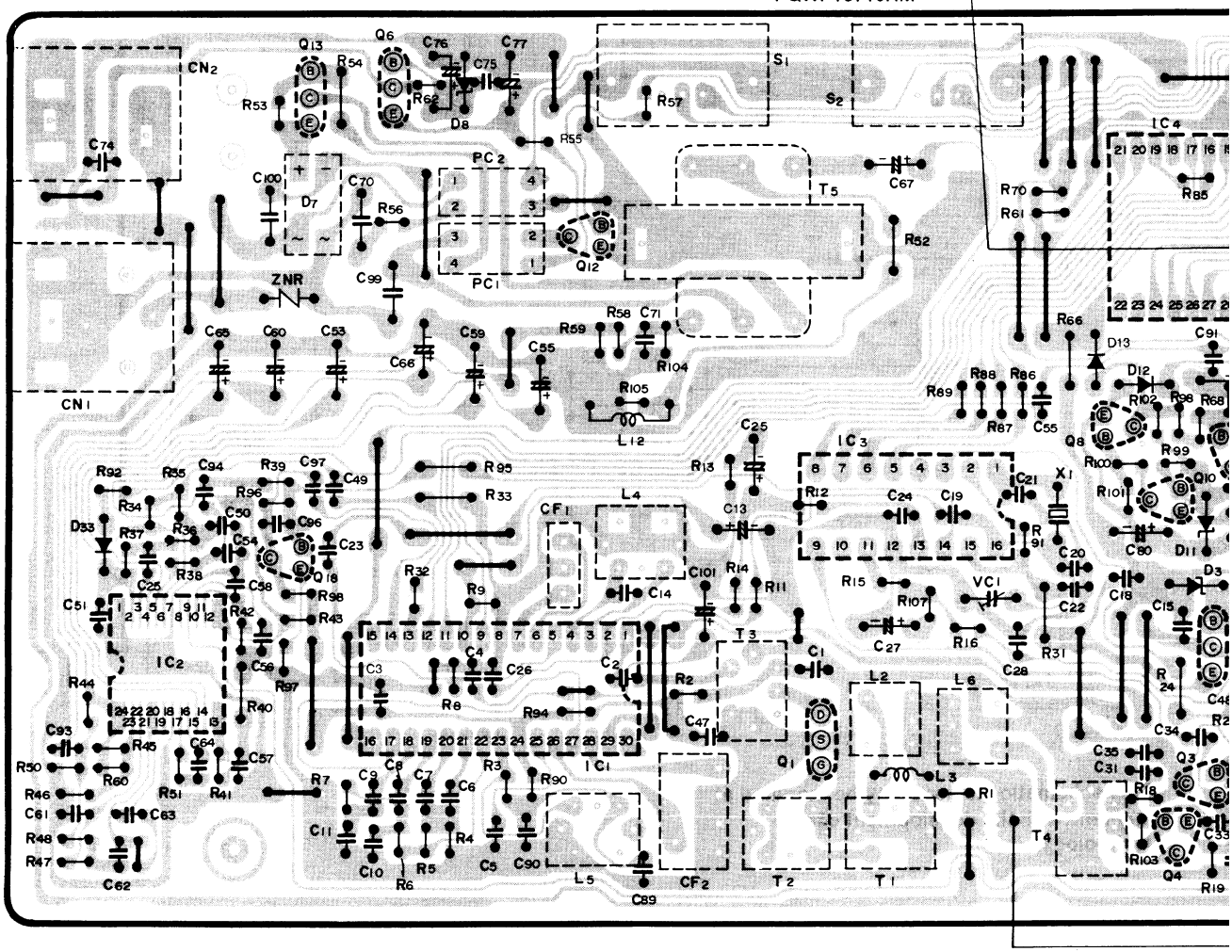
86	×	O	×	O	O
87	O	×	×	O	O
88	×	O	O	×	O
89	O	×	O	×	O
90	O	O	×	×	O
91	×	O	O	O	×
92	O	×	O	O	×
93	O	O	O	×	×
94	O	O	O	×	×
95	×	O	O	O	O
96	O	×	O	O	O

PQWPT3710HM

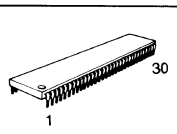


G CONNECTION DIAGRAM (KX-T3710H)

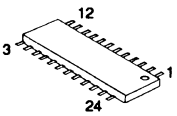
7 | 8 | 9 | 10 | 11 | 12

D21	D22	D23	D27	D29	D30
×	×	o	o	o	o
×	o	×	o	o	o
o	×	×	o	o	o
×	×	×	o	o	o
×	o	o	×	o	o
o	×	o	×	o	o
×	×	o	×	o	o
o	o	×	×	o	o
×	o	×	×	o	o
o	×	×	×	o	o
×	o	o	o	×	o
o	×	o	o	×	o
×	×	o	o	×	o
o	×	o	o	×	o
×	o	×	o	×	o
o	×	×	o	×	o
×	o	o	×	×	o
o	×	o	×	×	o
o	o	×	×	×	o
×	o	o	o	o	×
o	×	o	o	o	×
×	×	o	o	o	×
o	o	×	o	o	×
×	o	×	o	o	×
o	×	×	o	o	×
o	o	o	×	o	×
×	o	o	×	o	×
o	×	o	×	o	×
o	o	×	×	o	×
o	o	o	o	×	×
×	o	o	o	×	×

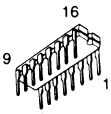
Code	D20	D21	D22	D23	D27	D29	D30
97	o	o	×	o	o	×	×
98	o	o	o	×	o	×	×
99	o	o	o	o	×	×	×
100	×	×	o	o	o	o	o
101	×	o	×	o	o	o	o
102	o	×	×	o	o	o	o
103	×	o	o	×	o	o	o
104	o	×	o	×	o	o	o
105	o	o	×	×	o	o	o
106	×	o	o	o	×	o	o
107	o	×	o	o	×	o	o
108	o	o	×	o	×	o	o
109	o	o	o	×	×	o	o
110	×	o	o	o	o	×	o
111	o	×	o	o	o	×	o
112	o	o	×	o	o	×	o
113	o	o	o	×	o	×	o
114	o	o	o	o	×	×	o
115	×	o	o	o	o	o	×
116	o	×	o	o	o	o	×
117	o	o	×	o	o	o	×
118	o	o	o	×	o	o	×
119	o	o	o	o	×	o	×
120	o	o	o	o	o	×	×
121	×	o	o	o	o	o	o
122	o	×	o	o	o	o	o
123	o	o	×	o	o	o	o
124	o	o	o	×	o	o	o
125	o	o	o	o	×	o	o
126	o	o	o	o	o	×	o
127	o	o	o	o	o	o	×
128	o	o	o	o	o	o	o



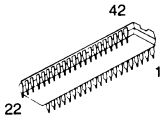
IC1



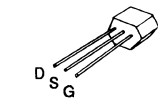
IC2



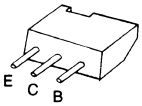
IC3



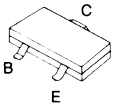
IC4



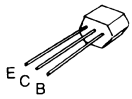
Q1



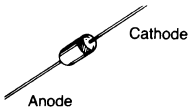
Q2, 7, 13



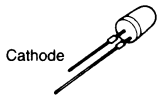
Q3~6, 9, 10, 12, 14, 16~18



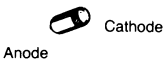
Q15



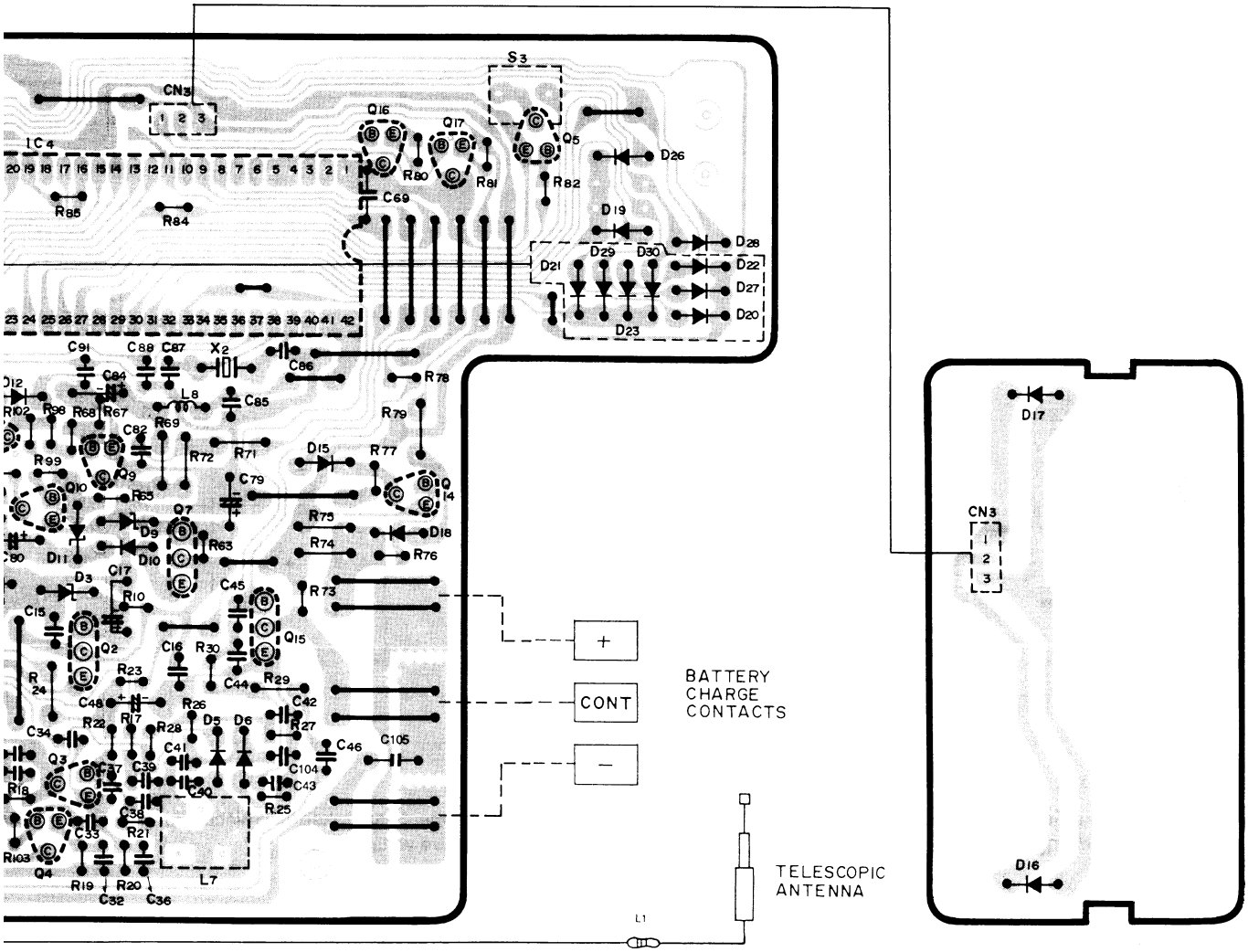
D3, 5~13, 15, 19, 20~23, 26~30, 33



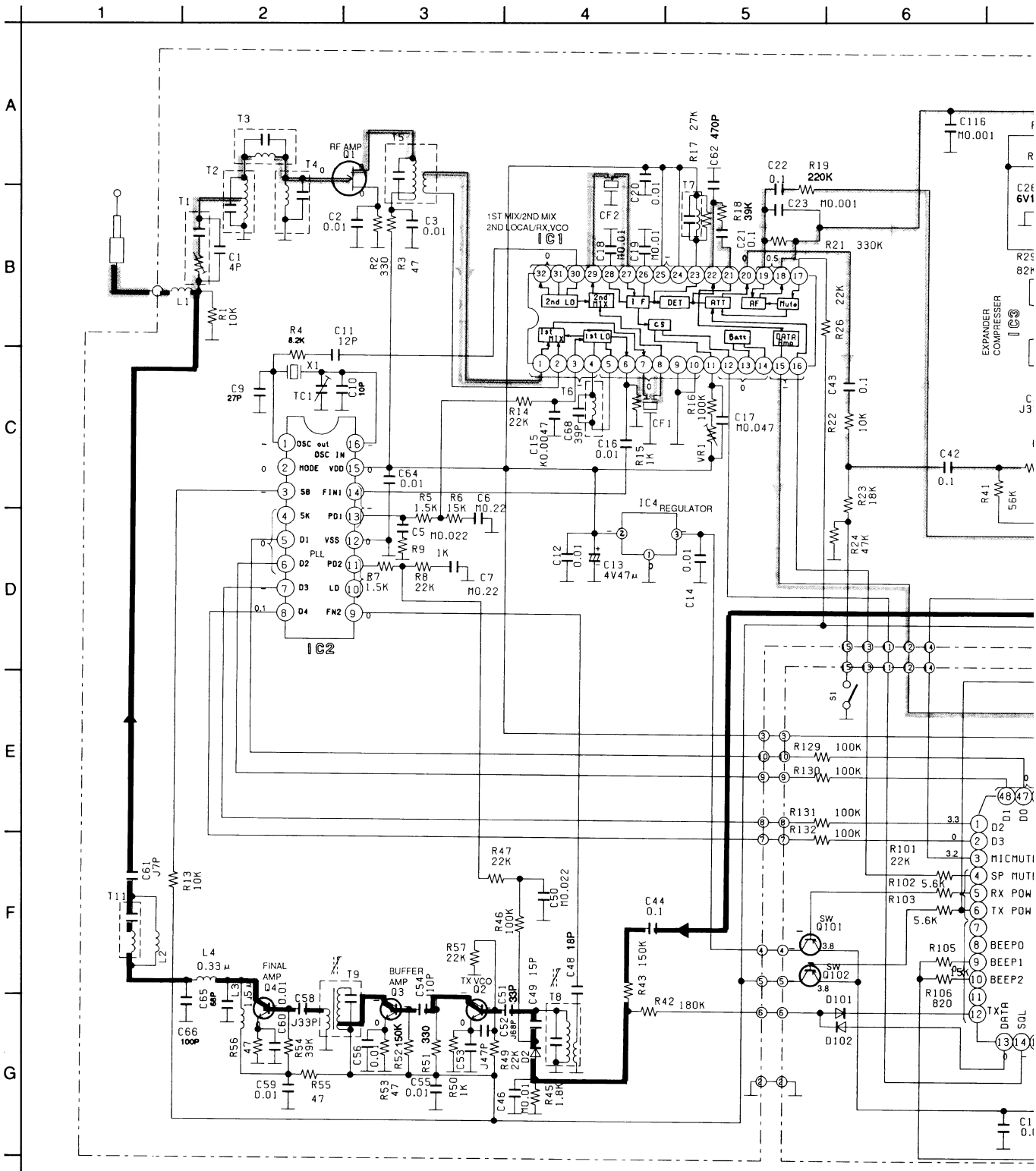
D16, 17



D18



SCHEMATIC DIAGRAM

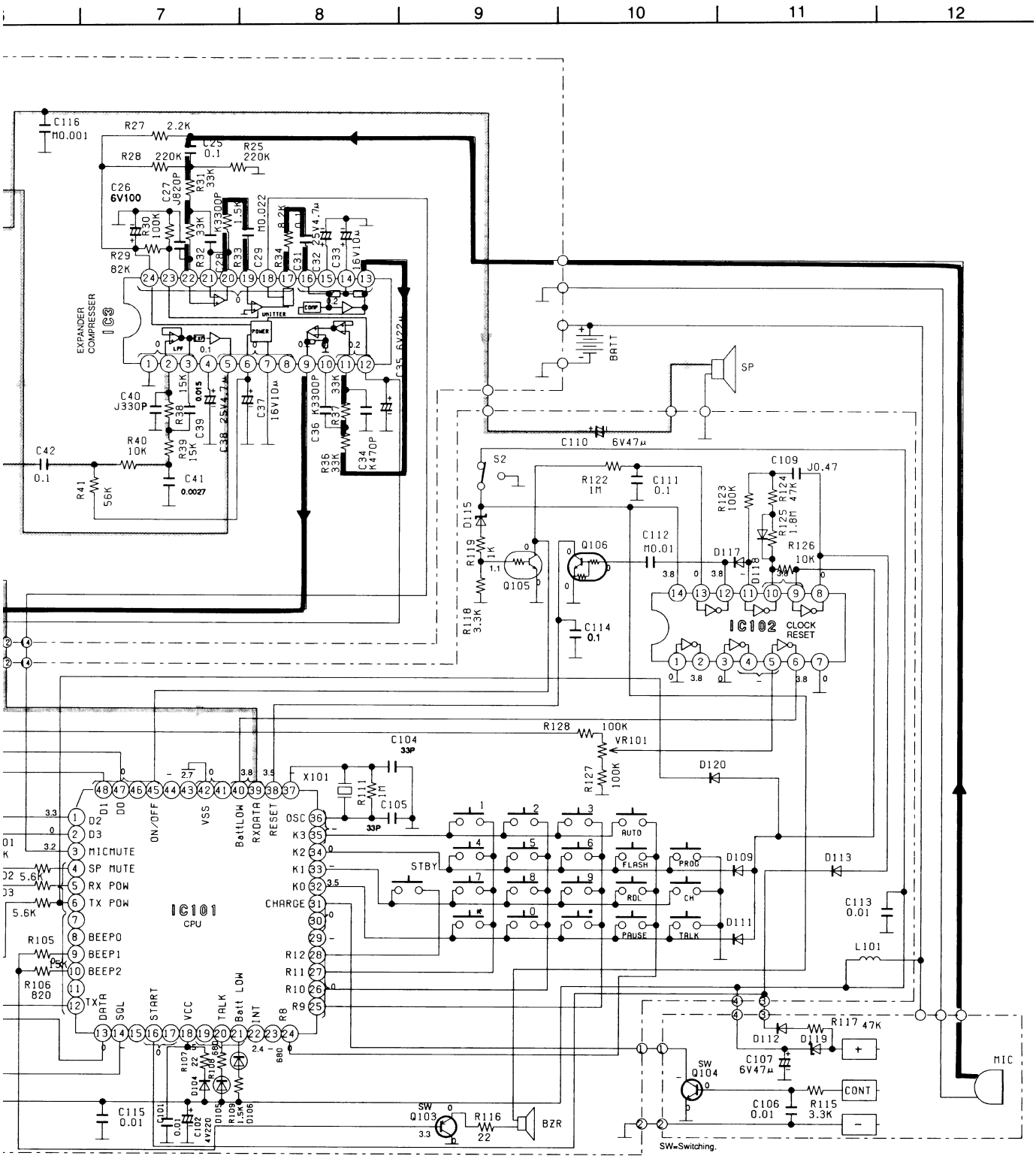


Notes:

1. S1: Volume Selector Switch in "HIGH" position.
2. S2: Power/Ringer switch in "OFF" position.
3. DC voltage measurements are taken with electronic voltmeter from negative voltage line.
   STANDBY position

TX Signal
RX Signal
Data Signal

IAGRAM (KX-T3710R)



nic

This schematic diagram may be modified at any time with the development of new technology.

ADJUSTMENTS (KX-T3710R)

■ TRANSMITTER & RECEIVER ADJUSTMENT

(A) Battery Low Adjustment
(B) Transmit VCO voltage Adjustment
(C) Receiver VCO voltage Adjustment
(D) Transmit Frequency Adjustment
(E) Transmit Output Adjustment
(F) Receiver Sensitivity Adjustment
(G) Carrier Sensitivity Adjustment

Required Equipment

- DC Power Supply
- Digital voltmeter
- Frequency Counter
- RF VTVM
- S.S.G.
- AF VTVM
- Oscilloscope

Flow Solder Side View

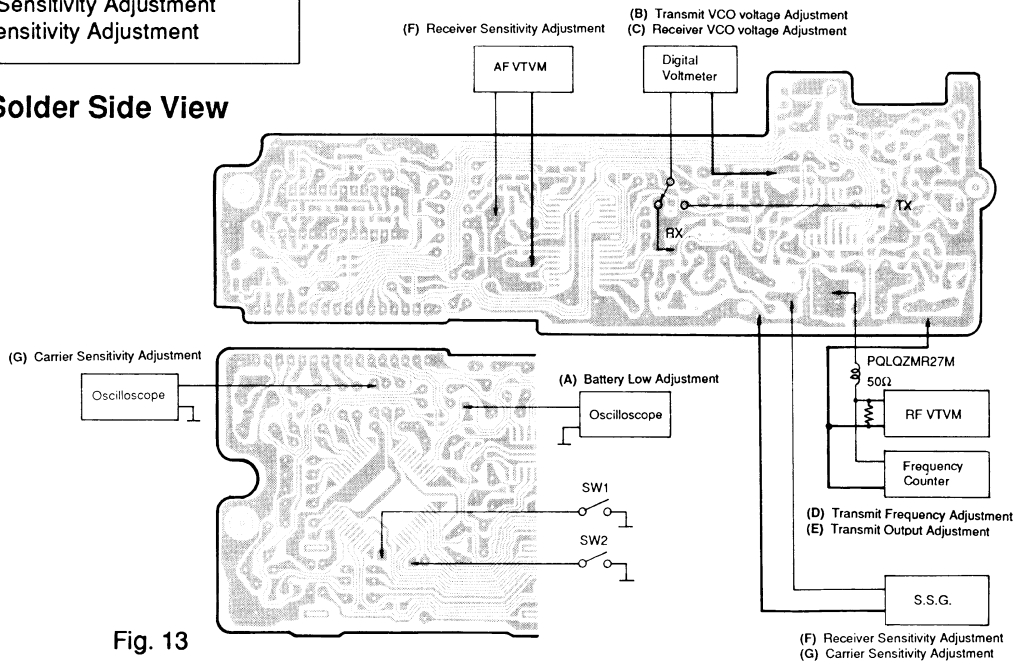


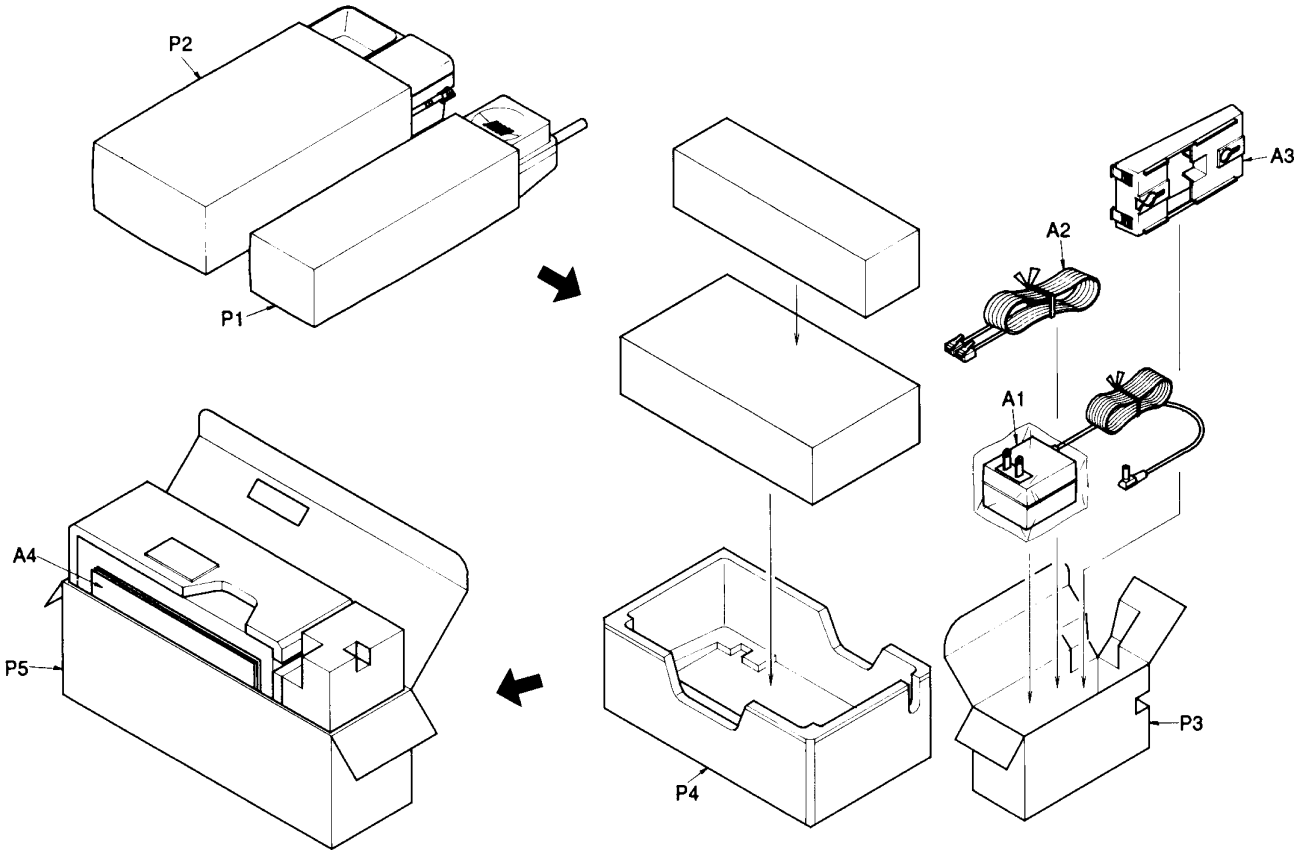
Fig. 13

	Required Equipment	Conditions	Procedure
(A)	DC Power Supply Oscilloscope	(1) Apply a DC 3.6 V to the connector CN1. (2) Set the Volume Selector to "NORMAL". (3) Set SW1 to ON (SW2 is OFF). (4) Set Power/Ringer Switch to "ON". (5) Press the TALK Button (unit enters CH10).	(1) Set the DC voltage level to DC 3.57 V, and adjust **VR101** so that Battery Low Indicator just illuminates at 3.57 V.
(B)	Digital Voltmeter	Same as (A)	(1) Adjust **T8** so that the reading of the Digital voltmeter is 2.1 V ± 0.1 V.
(C)	Digital Voltmeter	Same as (A)	(1) Adjust **T6** so that the reading of the Digital voltmeter is 2.1 V ±0.1 V.
(D)	Frequency Counter	Same as (A)	(1) Adjust **TC1** so that the reading of the frequency counter is 49.970 MHz ±100 Hz (10CH).
(E)	RF VTVM	Same as (A)	(1) Adjust **T9** and **T11** for maximum output on RF VTVM. (2) Adjust **T9** (counterclockwise) so that the reading of RF VTVM is 250 mV~400 mV.
(F)	S.S.G. AF VTVM	Same as (A)-(1), (2) (3) Set SW2 to ON (SW1 is OFF). (4) Set Power/Ringer switch to "ON". (5) Press the TALK Button (unit enters CH5).	(1) Apply a 60 dBμ output from S.S.G. (modulation frequency 1 kHz, dev, 3 kHz). (2) Adjust **T7** for maximum output at the speaker output (by AF VTVM). (3) Apply a 35 dBμ output from S.S.G. (unmodulated). (4) Adjust **T1, T2, T4** and **T5** (in that order) for maximum output by AF VTVM.
(G)	S.S.G. Oscilloscope	Same as (A)-(1), (2) and (F)-(3), (4)	(1) Apply a 4 dBμ output from S.S.G., and adjust **VR1** so that the oscilloscope is Low level.

FREQUENCY TABLE (MHz)

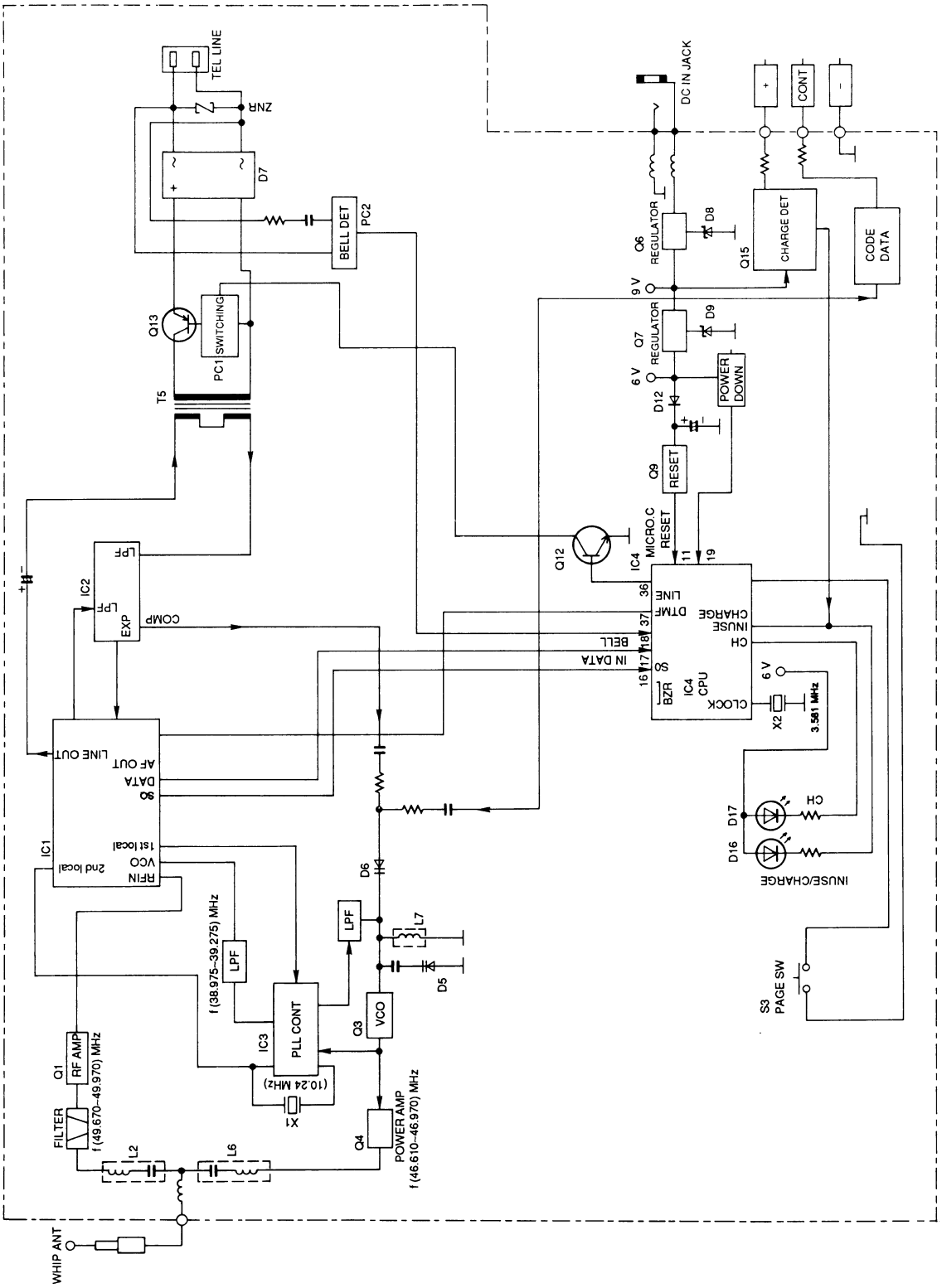
	KX-T3710H		KX-T3710R	
	Transmit Frequency	Receive Frequency	Transmit Frequency	Receive Frequency
CH1	46.610	49.670	49.670	46.610
CH2	46.630	49.845	49.845	46.630
CH3	46.670	49.860	49.860	46.670
CH4	46.710	49.770	49.770	46.710
CH5	46.730	49.875	49.875	46.730
CH6	46.770	49.830	49.830	46.770
CH7	46.830	49.890	49.890	46.830
CH8	46.870	49.930	49.930	46.870
CH9	46.930	49.990	49.990	46.930
CH10	46.970	49.970	49.970	46.970

ACCESSORIES AND PACKING MATERIALS



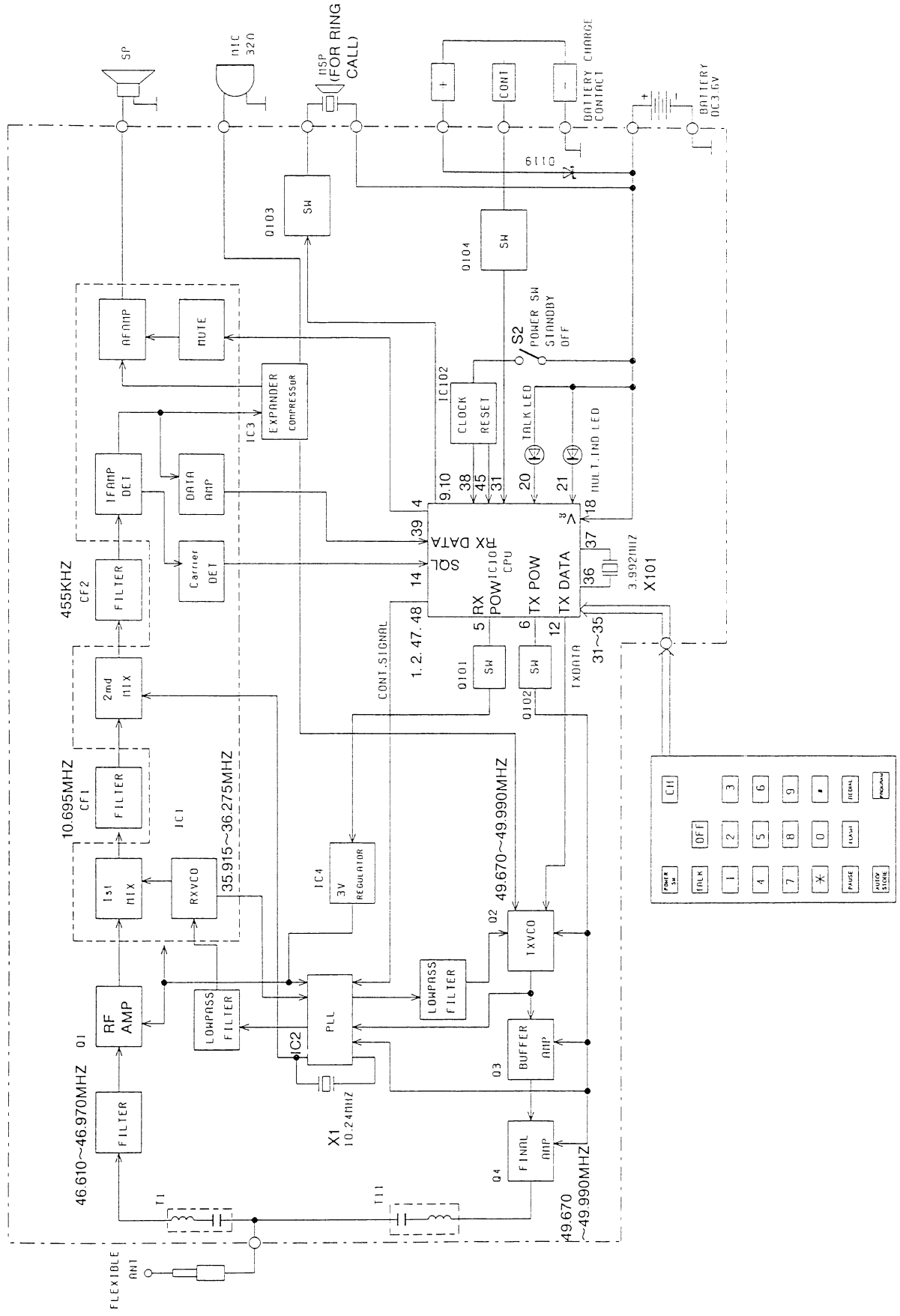
CIRCUIT EXPLANATION (KX-T3710H)

■ BLOCK DIAGRAM



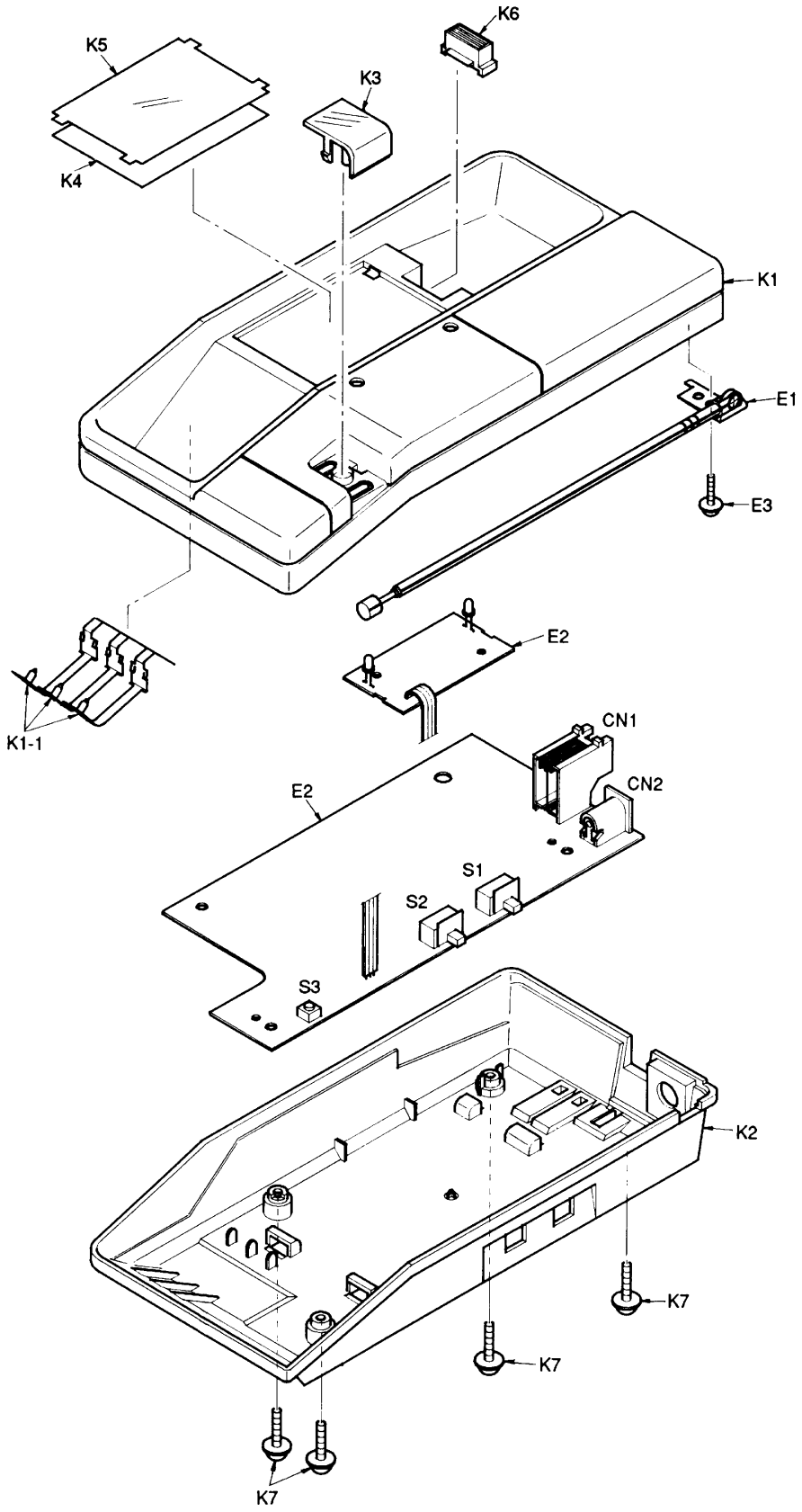
CIRCUIT EXPLANATION (KX-T3710R)

■ BLOCK DIAGRAM



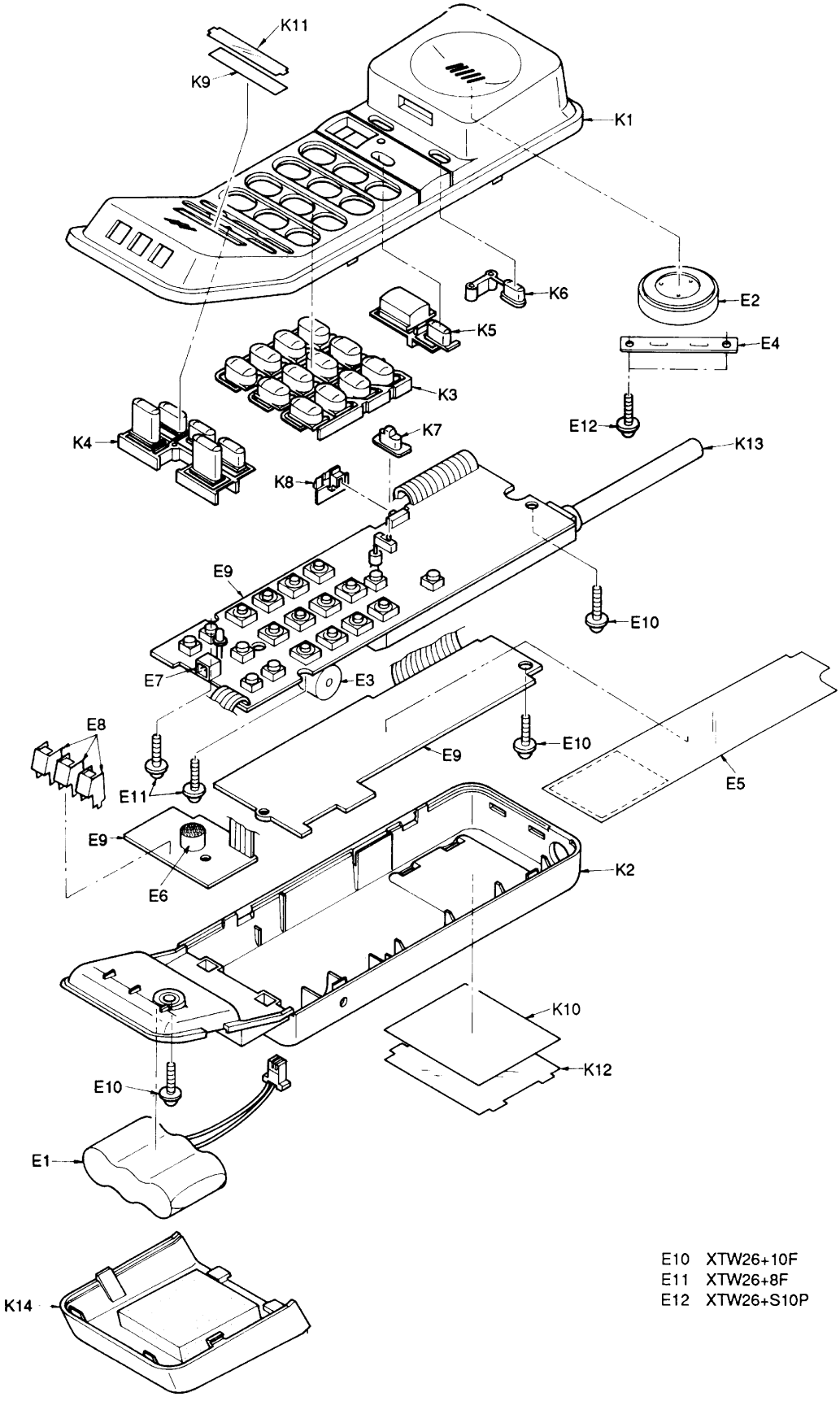
KX-T3710

CABINET AND ELECTRICAL PARTS LOCATION (KX-T3710H)



K7 XTW3+S14P
E3 XTW3+S10P

CABINET AND ELECTRICAL PARTS LOCATION (KX-T3710R)



E10 XTW26+10F
E11 XTW26+8F
E12 XTW26+S10P

REPLACEMENT PARTS LIST

Model KX-T3710H

Notes:

1. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.
2. Important safety notice.
   Components identified by the ⚠ mark special characteristics important for safety. when replacing any of these components, use only manufacture's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms(Ω) k=1000Ω,M=1000kΩ
   All capacitors are in MICRO FARADS(μF) P=μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor
Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyster
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polypropylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H:50V	05:50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs
INTEGRATED CIRCUITS, TRNSISTORS & DIODES			
IC1	AN6169K	IC	1
IC2	AN6165SB	IC	1
IC3	PQVI371004P	IC	1
IC4	MN158413KPJ	IC	1
Q1	2SK544	TRANSISTOR(SI)	1
Q2,7	2SD1991A	TRANSISTOR(SI)	2
Q3	2SC2295	TRANSISTOR(SI)	1
Q4	2SC2412K	TRANSISTOR(SI)	1
Q5,9,10	2SD601R	TRANSISTOR(SI)	3
Q6	2SD1994A	TRANSISTOR(SI)	1
Q8,14	2SB709A	TRANSISTOR(SI)	2
Q12,18	2SD601R	TRANSISTOR(SI)	2
Q13	2SA1625	TRANSISTOR(SI) ⚠	1
Q15	DTA144A	TRANSISTOR(SI)	1
Q16,17	PQVTDTA144K	TRANSISTOR(SI)	2
D3	MA4056	DIODE(SI)	1
D5,6	PQVD1SV145	DIODE(SI)	2
D7	PQVDS1ZB40F1	DIODE(SI) ⚠	1
D8	MA4100	DIODE(SI)	1
D9	MA4082	DIODE(SI)	1
D10	1SS131	DIODE(SI)	1
D11-13	MA4062	DIODE(SI)	3
D15,19	1SS131	DIODE(SI)	2
D16,17	LN28RPL	LED	2
D18	RLS71	DIODE(SI)	1
D20-23, ,26-30,33	1SS131	DIODE(SI)	10

Ref. No.	Part No.	Part Name & Description	Pcs
COILS AND TRANSFORMERS			
L1	PQLQZK1R8M	COIL	1
L2	PQLA7N2	COIL	1
L3	PQLQZMR56K	COIL	1
L4	PQLA7A20	COIL	1
L5	PQLI2B201	COIL	1
L6	PQLA7N1	COIL	1
L7	PQLA7A22	COIL	1
L8	PQLQZMR33K	COIL	1
L12	PQLQZI154J	COIL	1
T1	EIL7EL002P	COIL	1
T2	EIL7EL001P	COIL	1
T3,4	PQLA7A9	COIL	2
T5	PQLT8F3A	I.F. TRANSFORMER ⚠	1
SWITCHS			
S1,2	PQSS2A27W	SWITCH, CODE SELECTOR, DIALING MODE SELECTOR	2
S3	EVQ12405K	SWITCH, PAGE	1
OTHER			
CF1	RVFSFE107MSR	CERAMIC FILTER	1
CF2	PQVFCFW455E	CERAMIC FILTER	1
CN1	PQJJ1TA9Z	JACK, TEL LINE ⚠	1
CN2	PQJJ1B4Y	JACK, DC IN	1
VC1	PQCVTZ30F	TRIMMER CAPACITOR	1
X1	PQVCJ10240B5	CRYSTAL OSCILLATOR	1
X2	PQVCJ3581N9Z	CRYSTAL OSCILLATOR	1
PC1	PQVITLP627	PHOTO ELECTRIC TRANSDUCER ⚠	1
PC2	PQVIPC814Y	PHOTO ELECTRIC TRANSDUCER ⚠	1
F1	PQBA1P02NMAL	FUSE	1
ZNR1	PQVDHSA351F	SURGE ABSORBER ⚠	1
CABINET PARTS			
K1	PQYMT3710HM	CABINET BODY ASS'Y	1
K1-1	PQJT980Y	METAL PARTS	3
K2	PQYF1055X7	CABINET PLATE ASS'Y	1
K3	PQBC267Z	BUTTON	1
K4	PQHP5089Z	PAPER PARTS	1
K5	PQHR5335Z	TRANSPARENT PLATE	1
K6	PQKE49Z	HANGER	1
ELECTRICAL PARTS			
E1	XEAPQK170BA	ROD ANTENNA	1
E2	PQWPT3710HM	P.C. BOARD ASS'Y (NLA)	1

RESISTORS

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R1	PQ4R10XJ332	3.3K	R54	ERDS2TJ472	4.7K ⚠
R2	PQ4R10XJ271	270	R55	PQ4R10XJ472	4.7K ⚠
R3	PQ4R10XJ273	27K	R56	PQ4R10XJ473	47K ⚠
R4	PQ4R10XJ681	680	R57	PQ4R10XJ223	22K
R5	PQ4R10XJ223	22K	R58	PQ4R10XJ103	10K
R6	PQ4R10XJ103	10K	R59	PQ4R10XJ104	100K
R7	PQ4R10XJ393	39K	R60	PQ4R10XJ154	150K
R8	PQ4R10XJ391	390	R61	PQ4R10XJ473	47K
R9	PQ4R10XJ393	39K	R62	PQ4R10XJ102	1K
R10	PQ4R10XJ102	1K	R63	PQ4R10XJ102	1K
R11	PQ4R10XJ183	18K	R64	ERD25T100	10
R12	PQ4R10XJ222	2.2K	R65	PQ4R10XJ104	100K
R13	PQ4R10XJ562	5.6K	R66	ERDS2TJ104	100K
R14	PQ4R10XJ223	22K	R67	PQ4R10XJ104	100K
R15	PQ4R10XJ222	2.2K	R68	PQ4R10XJ104	100K
R16	PQ4R10XJ103	10K	R69	ERDS2TJ104	100K
R17	PQ4R10XJ104	100K	R70	PQ4R10XJ104	100K
R18	PQ4R10XJ220	22	R71	ERDS2TJ331	330
R19	PQ4R10XJ101	100	R72	ERDS2TJ103	10K
R20	PQ4R10XJ152	1.5K	R73	PQ4R10XJ332	3.3K
R21	PQ4R10XJ273	27K	R74	ERDS2TJ331	330
R22	PQ4R10XJ473	47K	R75	ERDS2TJ331	330
R23	PQ4R10XJ221	220	R76	PQ4R10XJ104	100K
R24	ERDS2TJ103	10K	R77	PQ4R10XJ103	10K
R25	PQ4R10XJ124	120K	R78	PQ4R10XJ103	10K
R26	PQ4R10XJ683	68K	R79	ERDS2TJ182	1.8K
R27	PQ4R10XJ683	68K	R80	PQ4R10XJ222	2.2K
R28	PQ4R10XJ104	100K	R81	PQ4R10XJ222	2.2K
R29	ERDS2TJ104	100K	R82	PQ4R10XJ473	47K
R30	PQ4R10XJ334	330K	R84	PQ4R10XJ224	220K
R31	ERDS2TJ820	82	R85	PQ4R10XJ104	100K
R32	PQ4R10XJ103	10K	R86	PQ4R10XJ104	100K
R33	ERDS2TJ472	4.7K	R87	PQ4R10XJ104	100K
R34	PQ4R10XJ563	56K	R88	PQ4R10XJ104	100K
R35	PQ4R10XJ153	15K	R89	PQ4R10XJ104	100K
R36	PQ4R10XJ153	15K	R90	PQ4R10XJ101	100
R37	PQ4R10XJ153	15K	R91	PQ4R10XJ103	10K
R38	PQ4R10XJ103	10K	R92	PQ4R10XJ104	100K
R39	PQ4R10XJ823	82K	R94	PQ4R10XJ100	10
R40	ERDS2TJ333	33K	R95	ERDS2TJ394	390K
R41	PQ4R10XJ333	33K	R96	PQ4R10XJ334	330K
R42	PQ4R10XJ333	33K	R97	PQ4R10XJ101	100
R43	PQ4R10XJ681	680	R98	PQ4R10XJ152	1.5K
R44	PQ4R10XJ224	220K	R99	PQ4R10XJ104	100K
R45	PQ4R10XJ154	150K	R100	PQ4R10XJ473	47K
R46	PQ4R10XJ104	100K	R101	PQ4R10XJ473	47K
R47	PQ4R10XJ333	33K	R102	PQ4R10XJ824	820K
R48	PQ4R10XJ223	22K	R103	PQ4R10XJ104	100K
R50	PQ4R10XJ224	220K	R104	PQ4R10XJ681	680
R51	PQ4R10XJ153	15K	R105	PQ4R10XJ221	220
R52	ERDS2TJ470	47	R107	PQ4R10XJ103	10K
R53	PQ4R10XJ104	100K ⚠			

CAPACITORS

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
C1	PQCUV1H103KB	0.01	C50	PQCUV1H472KB	0.0047
C2	PQCUV1H070DC	7P	C51	PQCUV1H221JC	220P
C3	PQCUV1H103KB	0.01	C52	PQCUV1H223KB	0.022
C4	PQCUV1H223KB	0.022	C53	ECEA1HU4R7	4.7
C5	PQCUV1C683MD	0.068	C54	PQCUV1H223KB	0.022
C6	PQCUV1H102J	0.001	C55	ECEA1HU100	10
C7	PQCUV1H102J	0.001	C56	PQCUV1H103KB	0.01
C8	PQCUV1E104ZF	0.1	C57	PQCUV1H222KB	0.0022
C9	PQCUV1E104ZF	0.1	C58	PQCUV1H121JC	120P
C10	PQCUV1E104ZF	0.1	C59	ECEA1HU100	10
C11	PQCUV1E104ZF	0.1	C60	ECEA1AU101	100
C13	ECEA1HKS4R7	4.7	C61	PQCUV1H681JC	680P
C14	PQCUV1H470JC	47P	C62	PQCUV1H332KB	0.0033
C15	PQCUV1H103KB	0.01	C63	PQCUV1H223KB	0.022
C16	PQCUV1H103KB	0.01	C64	PQCUV1E104ZF	0.1
C17	ECEA1EK470	47	C65	ECEA1HKS4R7	4.7
C18	PQCUV1H103KB	0.01	C66	ECEA1HU100	10
C19	PQCUV1H050DC	5P	C67	ECEA1HU100	10
C20	PQCUV1H100DC	10P	C69	ECUV1H104MD	0.1
C21	PQCUV1H270JC	27P	C70	ECQE2224KF	0.22 ⚠
C22	PQCUV1H103KB	0.01	C71	PQCUV1H103KB	0.01
C23	PQCUV1H103KB	0.01	C74	PQCUV1H103KB	0.01
C24	PQCUV1H103KB	0.01	C75	PQCUV1H103KB	0.01
C25	ECEA1HKS3R3	3.3	C76	ECEA1AU101	100
C26	PQCUV1E473MD	0.047	C77	ECEA1AU221	220
C27	ECEA1HKS4R7	4.7	C79	ECEA1CKS220	22
C28	PQCUV1E473MD	0.047	C80	ECEA0JU102	1000
C31	PQCUV1H103KB	0.01	C82	PQCUV1H103KB	0.01
C32	PQCUV1H103KB	0.01	C84	ECEA0JU102	1000
C33	PQCUV1H070DC	7P	C85	PQCUV1H103KB	0.01
C34	PQCUV1H390JC	39P	C86	PQCUV1H220JC	22P
C35	PQCUV1H103KB	0.01	C87	PQCUV1H220JC	22P
C36	PQCUV1H470JC	47P	C88	PQCUV1H103KB	0.01
C37	PQCUV1H680JC	68P	C89	PQCUV1H103KB	0.01
C38	PQCUV1H330JC	33P	C91	PQCUV1H102J	0.001
C39	PQCUV1H100DC	10P	C93	PQCUV1E104ZF	0.1
C40	PQCUV1H180JC	18P	C94	PQCUV1E104ZF	0.1
C41	PQCUV1H030CC	3P	C95	PQCUV1E104ZF	0.1
C42	PQCUV1H103KB	0.01	C96	PQCUV1H101JC	100P
C43	PQCUV1H271JC	270P	C97	PQCUV1E104ZF	0.1
C44	PQCUV1H102J	0.001	C98	PQCUV1E104ZF	0.1
C45	PQCUV1E104ZF	0.1	C99	ECKD2H681KB	680P ⚠
C46	PQCUV1E104ZF	0.1	C100	ECKD2H681KB	680P ⚠
C47	PQCUV1H103KB	0.01	C101	ECEA1HKS010	1
C48	ECEA1HKS010	1	C104	PQCUV1H150JC	15P
C49	PQCUV1E104ZF	0.1	C105	ECUV1H104MD	0.1

REPLACEMENT PARTS LIST

Model KX-T3710R

Notes:

1. Printed circuit board assembly with mark (NLA) is no longer available after production discontinuation of the complete set.
2. Important safety notice.
   Components identified by the ⚠ mark special characteristics important for safety. when replacing any of these components, use only manufacture's specified parts.
3. The S mark indicates service standard parts and may differ from production parts.
4. RESISTORS & CAPACITORS
   Unless otherwise specified.
   All resistors are in ohms(Ω) k=l000Ω,M=l000kΩ
   All capacitors are in MICRO FARADS(μF) P=μμF
   *Type &Wattage of Resistor
   Type

ERC:Solid	ERX:Metal Film	PQ4R:Carbon
ERD:Carbon	ERG:Metal Oxide	ERS:Fusible Resistor
PQRD:Carbon	ER0:Metal Film	ERF:Cement Resistor

Wattage

10,16:1/8W	14,25:1/4W	12:1/2W	1:1W	2:2W	3:3W

*Type & Voltage of Capacitor
Type

ECFD:Semi-Conductor	ECCD,ECKD,ECBT,PQCBC : Ceramic
ECQS:Styrol	ECQE,ECQV,ECQG : Polyster
PQCUV:Chip	ECEA,ECSZ : Electrolytic
ECQMS:Mica	ECQP : Polyproplylene

Voltage

ECQ Type	ECQG ECQV Type	ECSZ Type	Others	
1H: 50V	05: 50V	0F:3.15V	0J :6.3V	1V :35V
2A:100V	1:100V	1A:10V	1A :10V	50,1H:50V
2E:250V	2:200V	1V:35V	1C :16V	1J :63V
2H:500V		0J:6.3V	1E,25:25V	2A :100V

Ref. No.	Part No.	Part Name & Description	Pcs
INTEGRATED CIRCUITS, TRNSISTORS & DIODES			
IC1	AN6168SC	IC	1
IC2	PQVI371004FT	IC	1
IC3	AN6165K	IC	1
IC4	PQVIN7201U30	IC	1
IC101	PQVI505A1236	IC	1
IC102	PQVITC4069UBF	IC	1
Q1	2SK543	TRANSISTOR(SI)	1
Q2,4	2SC2295	TRANSISTOR(SI)	2
Q3	2SC2412K	TRANSISTOR(SI)	1
Q101,102	2SB1218A	TRANSISTOR(SI)	2
Q103	2SB709A	TRANSISTOR(SI)	1
Q104	2SD601R	TRANSISTOR(SI)	1
Q105	PQVTDTC144TK	TRANSISTOR(SI)	1
Q106	PQVTDTC144K	TRANSISTOR(SI)	1
D2	PQVD1SV145	DIODE(SI)	1
D101,102	1SS131	DIODE(SI)	2
D104	MA700A	DIODE(SI)	1
D105	PQVDSLZ244A1	DIODE(SI)	1
D106	PQVDSLZ135B2	DIODE(SI)	1
D109,111 ,112,113 ,117,118 D120	1SS131	DIODE(SI)	7
D115	PQVDRD2R4HS	DIODE(SI)	1
D119	MA4068	DIODE(SI)	1

Ref. No.	Part No.	Part Name & Description	Pcs
VARIABLE RESISTORS			
VR1	EVNDXAA03B35	VARIABLE RESISTOR, 300KΩ (B)	1
VR101	EVNDXAA03B25	VARIABLE RESISTOR, 200KΩ (B)	1
COILS			
L3	PQLQZM1R5K	COIL	1
L4	PQLQZMR27M	COIL	1
L101	PQLQZM100K	COIL	1
T2	EIL7EL003P	COIL	1
T3	EIL7EL004P	COIL	1
T4	EIL7EL005P	COIL	1
T5	PQLA7A9	COIL	1
T6	PQLA7A11	COIL	1
T7	PQLI2B201	COIL	1
T8	PQLA7A10	COIL	1
T9	PQLA7A7	COIL	1
SWITCHS			
S1	ESD11H120	SWITCH, VOLUME SELECTOR	1
S2	ESD11V120	SWITCH, POWER / RINGER	1
S101-112	PQSH1A33Z	SWITCH, 12KEY	12
S121-128	EVQ12405K	SWITCH, 10CH REMOTE CHANGE, TALK, TALK OFF, PAUSE, FLASH, REDIAL, AUTO / STRE, PROGRAM	8
OTHERS			
CF1	RVFSFE107MSR	CERAMIC FILTER	1
CF2	PQVFCFW455E	CERAMIC FILTER	1
X1	PQVCJ10240B5	CRYSTAL OSCILLATOR	1
X101	PQVCJ3992N9Z	CRYSTAL OSCILLATOR	1
P1	PQPP94W	PROTECTION COVER	1
CABINET PARTS			
K1	PQKM189X7	CABINET BODY	1
K2	PQKF171Z8	CABINET PLATE	1
K3	PQBCX173Z	BUTTON	1
K4	PQBCX174Z	BUTTON	1
K5	PQBCX175Y	BUTTON	1
K6	PQBC252Z	BUTTON	1
K7	PQBD148Z	KNOB	1
K8	PQBD149Z	KNOB	1
K9	PQHP5065Z	PAPER PARTS	1
K10	PQHP5066Z	PAPER PARTS	1
K11	PQHR5290Z	PLASTIC PARTS	1
K12	PQHR5291Z	TRANSPARENT PLATE	1
K13	PQSA807Z	RETRACTABLE RUBBER ANTENNA	1
K14	PQYK1009Z8	LID	1
ELECTRICAL PARTS			
E1	KX-A36A	RECHARGEABLE BATTERY	1
E2	PQAX3P07Z	SPEAKER	1
E3	PQEFBQMB111M	BUZZER	1
E4	PQUL58Y	METAL PARTS	1
E5	PQMC176Y	MAGNETIC SHIELD PARTS	1
E6	PQJM116Y	MICROPHONE	1
E7	PQJP2D59Z	CONNECTOR (CN101)	1
E8	PQJT3119X	METAL PARTS (CN102-104)	3
E9	PQWPT3710RM	P.C. BOARD ASS'Y (NLA)	1

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
RESISTORS					
R1	PQ4R10XJ103	10K	R45	PQ4R10XJ182	1.8K
R2	PQ4R10XJ331	330	R46	PQ4R10XJ104	100K
R3	PQ4R10XJ470	47	R47	PQ4R10XJ223	22K
R4	PQ4R10XJ822	8.2K	R49	PQ4R10XJ223	22K
R5	PQ4R10XJ152	1.5K	R50	PQ4R10XJ102	1K
R6	PQ4R10XJ153	15K	R51	PQ4R10XJ331	330
R7	ERDS2TJ152	1.5K	R52	PQ4R10XJ154	150K
R8	PQ4R10XJ223	22K	R53	PQ4R10XJ470	47
R9	PQ4R10XJ102	1K	R54	PQ4R10XJ393	39K
R13	PQ4R10XJ103	10K	R55	PQ4R10XJ470	47
R14	PQ4R10XJ223	22K	R56	PQ4R10XJ470	47
R15	ERJ3GEYJ102	1K	R57	PQ4R10XJ223	22K
R16	PQ4R10XJ104	100K			
R17	ERJ3GEYJ273	27K	R101	PQ4R10XJ223	22K
R18	ERJ3GEYJ393	39K	R102	ERDS2TJ562	5.6K
R19	ERDS2TJ224	220K	R103	ERDS2TJ562	5.6K
R21	ERJ3GEYJ334	330K	R105	ERDS2TJ153	15K
R22	ERJ3GEYJ103	10K	R106	ERDS2TJ821	820
R23	ERJ3GEYJ183	18K	R107	ERDS2TJ220	22
R24	ERJ3GEYJ473	47K	R108	ERJ3GEYJ681	680
R25	ERJ3GEYJ224	220K	R109	PQ4R10XJ152	1.5K
R26	ERJ3GEYJ223	22K	R111	ERJ3GEYJ105	1M
R27	ERJ3GEYJ222	2.2K	R115	ERDS2TJ332	3.3K
R28	ERJ3GEYJ224	220K	R116	PQ4R10XJ220	22
R29	ERJ3GEYJ823	82K	R117	ERDS2TJ473	47K
R30	ERJ3GEYJ104	100K	R118	ERJ3GEYJ332	3.3K
R31	ERJ3GEYJ333	33K	R119	PQ4R10XJ102	1K
R32	ERJ3GEYJ333	33K	R122	ERJ3GEYJ105	1M
R33	ERJ3GEYJ152	1.5K	R123	ERJ3GEYJ104	100K
R34	ERJ3GEYJ822	8.2K	R124	ERJ3GEYJ473	47K
R36	ERJ3GEYJ333	33K	R125	ERJ3GEYJ185	1.8M
R37	ERJ3GEYJ333	33K	R126	ERJ3GEYJ103	10K
R38	ERJ3GEYJ153	15K	R127	ERDS2TJ104	100K
R39	ERJ3GEYJ153	15K	R128	ERDS2TJ104	100K
R40	ERJ3GEYJ103	10K	R129	ERDS2TJ104	100K
R41	ERJ3GEYJ563	56K	R130	ERDS2TJ104	100K
R42	PQ4R10XJ184	180K	R131	ERDS2TJ104	100K
R43	ERDS2TJ154	150K	R132	ERDS2TJ104	100K

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
CAPACITORS					
C1	PQCUV1H040C	4P	C42	ECUV1H104MD	0.1
C2	PQCUV1H103KB	0.01	C43	ECUV1H104MD	0.1
C3	PQCUV1H103KB	0.01	C44	PQCUV1E104ZF	0.1
C5	PQCUV1H223KB	0.022	C46	PQCUV1H103KB	0.01
C6	PQCUV1E224ZF	0.22	C48	ECUV1H180JC	18P
C7	PQCUV1E224ZF	0.22	C49	PQCUV1H150JC	15P
C9	PQCUV1H270JC	27P	C50	PQCUV1H223KB	0.022
C10	PQCUV1H100DC	10P	C51	PQCUV1H330JC	33P
C11	PQCUV1H120JC	12P	C52	PQCUV1H680JC	68P
C12	ECUV1H103KB	0.01	C53	PQCUV1H470JC	47P
C13	ECEA0GKS470	47	C54	PQCUV1H100DC	10P
C14	ECUV1H103KB	0.01	C55	PQCUV1H103KB	0.01
C15	PQCUV1H472KB	0.0047	C56	PQCUV1H103KB	0.01
C16	PQCUV1H103KB	0.01	C58	PQCUV1H330JC	33P
C17	PQCUV1E473MD	0.047	C59	PQCUV1H103KB	0.01
C18	ECUV1H103KB	0.01	C60	PQCUV1H103KB	0.01
C19	ECUV1H103KB	0.01	C61	PQCUV1H070DC	7P
C20	ECUV1H103KB	0.01	C62	ECUV1H471JC	470P
C21	ECUV1H104MD	0.1	C64	PQCUV1H103KB	0.01
C22	ECUV1H104MD	0.1	C65	PQCUV1H680JC	68P
C23	ECUV1H102KB	0.001	C66	PQCUV1H101JC	100P
C25	ECUV1H104MD	0.1	C68	PQCUV1H390JC	39P
C26	ECEA0GKS101	100			
C27	ECUV1H821KB	820P	C101	ECUV1H103KB	0.01
C28	ECUV1H332KB	0.0033	C102	ECEA0GKS221	220
C29	ECUV1H223MD	0.022	C104	ECUV1H330JC	33P
C31	ECUV1H104MD	0.1	C105	ECUV1H330JC	33P
C32	ECEA1VKS4R7	4.7	C106	PQCUV1H103KB	0.01
C33	ECEA1CKS100	10	C107	ECEA0JKS470	47
C34	ECUV1H471JC	470P	C109	ECQV1H474JZ	0.47
C35	ECEA0JKS220	22	C110	ECEA0JKS470	47
C36	ECUV1H332KB	0.0033	C111	ECUV1H104MD	0.1
C37	ECEA1CKS100	10	C112	ECUV1H104MD	0.1
C38	ECEA1VKS4R7	4.7	C113	PQCUV1H103KB	0.01
C39	ECUV1H153MD	0.015	C114	ECUV1H104MD	0.1
C40	ECUV1H331JC	330P	C115	PQCUV1H103KB	0.01
C41	ECUV1H272MD	0.0027	C116	PQCUV1H102J	0.001

KX-T3710

Ref. No.	Part No.	Part Name & Description	Pcs
ACCESSORIES			
A1	KX-A10	AC ADAPTOR ⚠	1
A2	PQJA102Z	TELEPHONE CORD	1
A3	PQKL25Y	WALL MOUNT BRACKET	1
A4	PQQX6282Z	INSTRUCTION BOOK	1
PACKING MATERIALS			
P1	PQPP94W	PROTECTION COVER	1
P2	XZB20X35A01	PROTECTION COVER	1
P3	PQPN1180Z	ACCESSORY BOX	1
P4	PQPN1179Z	PAD	1
P5	PQPK1200Z	GIFT BOX	1